#### PROJECT DESCRIPTION I. GENERAL

This project involves the reconstruction of an existing signal to provide for additional through and left turn lanes along US Route 1 (Baltimore Avenue) and a new median along US Route 1. The existing signal poles on the north-east and south-west sides of the intersection will be removed and new signal poles and mast arms will be installed. The existing signal pole and mast arm on the north-west side of the intersection will remain. Detection cameras will be installed for the left turn lanes along US 1 and all of the "at signal" lanes for the minor roads. Micro-probes will be used for the advanced detection along US Route 1.

#### II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA 8-phase, semi-actuated mode, with the East-West approaches running concurrently.

#### III. CONTROLLER REQUIREMENT

1. Re-use a fully-traffic-actuated, eight-phase controller in the existing NEMA size "6" base mounted cabinet. Video interface equipment will be installed.

#### IV. SPECIAL NOTES

1. The Maryland State Highway Administration Signal Shop shall be responsible for installing all new equipment in the cabinet.

### PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

MR. CHARLIE WATKINS DISTRICT ENGINEER (301) 513-7311

MR. MAJID SHAKIB ADE TRAFFIC (301) 513-7358

MR. DENNIS MCMAHON ADE CONSTRUCTION (301) 513-7345

MR. RICHARD DAFF DIVISION CHIEF. TOD (410) 787-7630

MR. BARRY KING CHIEF, TEDD (410) 787-4011 MR. EDWARD RODENHIZER CHIEF OF SIGNAL OPERATIONS (410) 787-7652

# EQUIPMENT LIST A

A. THE CONTRACTOR SHALL FURNISH THE INTERFACE EQUIPMENT FOR THE CAMERAS AND SHA SHALL INSTALL THE INTERFACE EQUIPMENT FOR THE CAMERAS.

# EQUIPMENT LIST B

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR.

QUANTITY DESCRIPTION

MAINTENANCE OF TRAFFIC

TEST PIT EXCAVATION

FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION

FURNISH AND INSTALL 12 IN., ONE-WAY, THREE SECTION (R,Y,G) BLACK-FACED TRAFFIC SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM MOUNTING.

4 EACH FURNISH AND INSTALL 12 IN., ONE-WAY, THREE SECTION (RA, YA, GA) BLACK-FACED TRAFFIC SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM MOUNTING.

1 EACH FURNISH AND INSTALL 12 IN., ONE-WAY, TWO SECTION (WALK, DON'T WALK) PEDESTRIAN SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR PEDESTAL POLE MOUNTING AND CUTAWAY VISORS.

7 EACH FURNISH AND INSTALL 12 IN., ONE-WAY, TWO SECTION (WALK, DON'T WALK) PEDESTRIAN SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM POLE MOUNTING AND CUTAWAY VISORS.

4 EACH FURNISH AND INSTALL PEDESTRIAN PUSHBUTTON AND R10-4(2) SIGN - "PUSHBUTTON TO CROSS BALTIMORE AVE.".

FURNISH AND INSTALL SHEET ALUMINUM SIGNS

- 3 EACH R3-5L SIGN (30" X 36") - MAST ARM MOUNT

- 4 EACH D3-2 SIGN (VAR. X 16") - MAST ARM MOUNT

- 1 EACH R3-2 SIGN (30" X 30") - MAST ARM MOUNT

FURNISH AND INSTALL 3/4 IN. X 10 FT. GROUND ROD

FURNISH AND INSTALL MAST ARM POLE AND 38 FT. MAST ARM

FURNISH AND INSTALL MAST ARM POLE AND 60 FT. MAST ARM 3 EACH

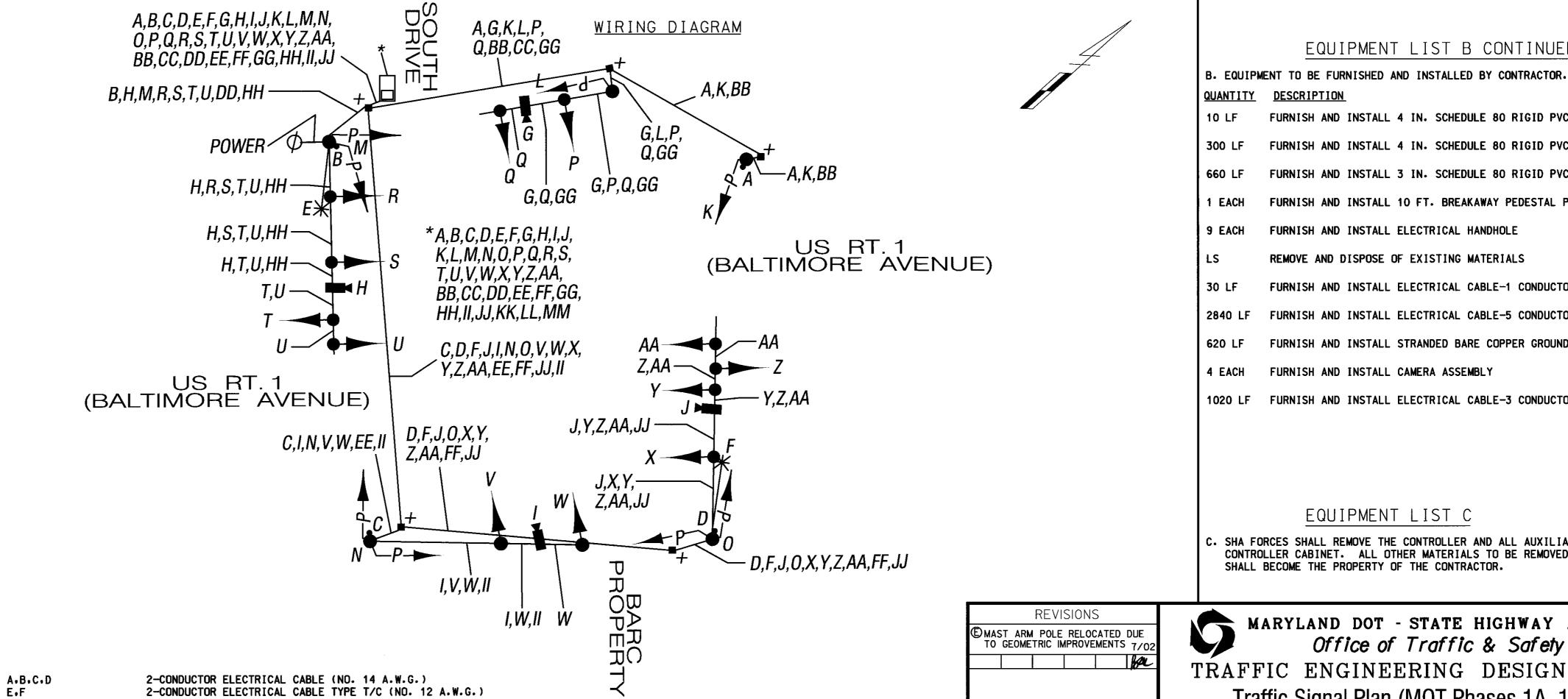
FURNISH AND INSTALL 20 FT. LIGHTING ARM FOR TRAFFIC SIGNAL STRUCTURE

FURNISH AND INSTALL 250 WATT HPS LUMINAIRE WITH PHOTOCELL

FURNISH AND INSTALL ELECTRICAL CABLE-2 CONDUCTOR (NO. 14 AWG)

380 LF FURNISH AND INSTALL ELECTRICAL CABLE-2 CONDUCTOR TYPE T/C (NO. 12 AWG)

PHASING SEQUENCE CHART	R Y G	R Y G 4	R Y G	R Y G 8	R Y G 9	(R) (Y) (G) 10	(R) (Y) (G) 11	(R) (Y) (G) 12	
PHASE 02 & 06	G	G	G	G	R	R	R	R	
PHASE 02 & 06 CHANGE	Υ	Υ	Y	Υ	R	R	R	R	<b>→</b>
PHASE 04 & 08	R	R	R	R	G	G	G	G	
PHASE 04 & 08 CHANGE	R	R	R	R	Υ	Υ	Υ	Υ	<b> </b>
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	-



ENGINEERING-PLANNING-EARTH SCIENCES-SURVEYING

GREENHORNE & O'MARA, INC.

310 GLENEAGLES COURT, SUITE 106, BALTIMORE, MARYLAND 21286

(410) 583-6700

ANNAPOLIS,MD-BALTIMORE,MD-ATLANTA,GA-TAMPA,FL-FAIRFAX,VA-WEST PALM BEACH,FL

ROCKVILLE,MD-RALEIGH,NC-FREDERICKSBURG,VA-MECHANICSBURG,PA- ST. PETERSBURG,FL

3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

1-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

POWER SERVICE FOR CAMERA

3/4 IN. X 10 FT. GROUND ROD

STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

G.H.I.J.K.L M.N.O.P.Q.R.S.T.

U.V.W.X.Y.Z.AA

BB.CC.DD.EE.FF

GG.HH.II.JJ

KK+LL+MM

### EQUIPMENT LIST B CONTINUED

QUANTITY DESCRIPTION FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT (TRENCHED) 300 LF FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT (SLOTTED) FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT (TRENCHED) FURNISH AND INSTALL 10 FT. BREAKAWAY PEDESTAL POLE FURNISH AND INSTALL ELECTRICAL HANDHOLE REMOVE AND DISPOSE OF EXISTING MATERIALS FURNISH AND INSTALL ELECTRICAL CABLE-1 CONDUCTOR (NO. 4 AWG) FURNISH AND INSTALL ELECTRICAL CABLE-5 CONDUCTOR (NO.14 AWG) FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

1020 LF FURNISH AND INSTALL ELECTRICAL CABLE-3 CONDUCTOR (NO. 14 AWG)

FURNISH AND INSTALL CAMERA ASSEMBLY

EQUIPMENT LIST C

S.H.A. NO.

COUNTY:

1" = 20'

AUGUST 3, 1973

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR. **TS-2** 

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

Traffic Signal Plan (MOT Phases 1A, 1B & 2)

US RT. 1 (BALTIMORE AVENUE) & SOUTH DRIVE/BARC

P-323-003-385

PRINCE GEORGE'S

14 of 22 16000106.75 Fay1

SHEET NO.

998 **A -6**I

T.I.M.S. NO.

J:/TRANS/DEV-7224/SIGNALS/BARC2(A).dgn December 6, 2002 10:00